PHILIPS

70FT950

FT 950

Digital Satellite Stereo Tuner

GB	Owner's manual	4
F	Mode d'emploi	13
D	Bedienungsanleitung	22
NL	Gebruiksaanwijzing	31

PHILIPS

PHILIPS

Australia

Guarantee and Service valid for Australia

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies, which, under the Trade Practices Act or other Commonwealth or State law, the purchaser or owner has in respect of the product.

The Philips product carries the following warranties:
- C-series HiFi-systems 12 months.
- Compact Disc Players: 12 months.
- Home Audio Systems: 6 months.
- Clock radios, portable radios, cassette recorders, cassette players and radio recorders: 90 days.

Any defect in materials or workmanship occurring within the specified period from the date of delivery, will be rectified free of charge by the retailer from whom this product was purchased.

Note: Please retain your purchase docket to assist prompt service.

Conditions of this warranty

1. All claims for warranty service must be made to the retailer from whom this product was purchased. All transport charges incurred in connection with warranty service or replacement will be paid by the purchaser.
2. These warranties do not cover batteries and extend only to defects in materials or workmanship occurring under normal use of the product where operated in accordance with our instructions.

Philips Consumer Products Division,
Technology Park
Figtree Drive, Australia Centre
Homebush 2140,
New South Wales

New Zealand

Guarantee and Service for New Zealand

Thank-you for purchasing this quality Philips product.
Philips New Zealand Ltd guarantees this product against defective components and faulty workmanship for a period of 12 months. Any defect in materials or workmanship occurring within 12 months from the date of purchase subject to the following conditions will be rectified free of charge by the retailer from whom this product was purchased.

Conditions

1. The product must have been purchased in New Zealand. As proof of purchase, retain the original sales docket indicating the date of purchase.
2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
3. The guarantee does not cover failures caused by misuse, neglect, normal wear and tear, accidental breakage, use on the incorrect voltage, use contrary to operating instructions, or unauthorised modification to the product or repair by an unauthorised technician.
4. Reasonable evidence (in the form of a sales docket) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
5. In the event of a failure, Philips shall be under no liability for any injury, or any loss or damage caused to property or products other than the product under guarantee.

This guarantee does not prejudice your rights under common law and statute, and is in addition to the normal responsibilities of the retailer and Philips.

How to claim

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product.
However, should the retailer not be able to conclude the matter satisfactorily, or if you have other difficulties claiming under this guarantee, please contact

The Guarantee Controller
Philips New Zealand Ltd.
✉ P.O. Box 41.021
Auckland
☎ (09) 84 94 160
fax ☎ (09) 84 97 858

(MEX) Mexico ..... NOM

Es necessario que lea cuidadosamente su instructivo de manejo.

PRECAUCION - ADVERTENCIA
NO ABRIR, RIESGO DE CHOQUE ELECTRICO
ATENCION
VERIFIQUE QUE EL VOLTAJE DE ALIMENTACION
SEA EL REQUERIDO PARA SU APARATO
PARA EVITAR EL RIESGO DE CHOQUE ELECTRICO, NO QUITE LA TAPA;
EN CASO DE REQUERIR SERVICIO, DIRIJASE AL PERSONAL AUTORIZADO DE PHILIPS.

NOM

(E) España

Declaración de conformidad con normas

El que suscribe, en nombre y representación de:
Philips Consumer Electronics
Eindhoven, the Netherlands

declara, bajo su propia responsabilidad, que el

equipo: **Sistema Audio**
fabricado para: **Philips Consumer Electronics**
en: **Germany**
marca: **Philips**
modelo: **FT 950**

objeto de esta declaración, cumple con la normativa siguiente:
Reglamento sobre Perturbaciones Radioeléctricas,
Real Decreto 138/1989, Anexo V.

Hecho en: Eindhoven, 01-06-1991

Firma: Seidel

Nombre: Seidel
Cargo: Jefe de Homologaciones

(GB) **English** ..... **page 4** — English

(F) **Français** ..... **page 13** — Français

(D) **Deutsch** ..... **Seite 22** — Deutsch

(NL) **Nederlands** ..... **pagina 31** — Nederlands

Thank you for selecting the Philips FT950 Digital Satellite Stereo Tuner.

A tuner of the state-of-the art Philips 900 series, the FT950 combines high-quality radio reception with a high degree of user-friendliness.

- This tuner is designed for full integration into ESI remote-controlled Philips (900 series) HiFi systems .
- High-precision, drift-free quartz-locked digital tuning on two wavebands.
- 3 satellite presets (consisting of 16 stations each) can be stored in the memory together with a programmable preset name.
- 59 frequencies can be stored in the memory together with a programmable station name or RDS name.
- easy tuning and selection of presets.

Please read this manual carefully ***before*** you attempt to connect or operate the tuner.

This manual is divided into six sections:

- **Installation**: explains how to connect your tuner;
- **Operation**: explains how to use the major controls;
- **Satellite tuning**: explains how to tune to, store and select satellite stations;
- **Analogue tuning**: explains how to tune to, store and select FM/MW stations;
- **System Aspects**: explains the Enhanced System Intelligence feature and its benefits;
- **General Information**: includes maintenance information and technical data.

The type plate is located on the back of the set.
This product complies with the radio interference requirements of the European Community.

WARNING
Do not connect the set to the mains until all other connections have been made and the mains voltage (indicated on the type plate) has been checked.

MAINS SUPPLY

- Check that the mains voltage as shown on the type plate corresponds to your local mains supply. If it does not, consult your dealer or service organisation.
- If your unit has a voltage selector, make sure ***only*** to change the voltage in the POWER STANDBY/OFF position.
- Insert the plug of the mains lead into the wall socket. If your amplifier has MAINS OUTLETS, please insert this plug into one of these outlets.

– The mains supply is now connected.

- To disconnect the set from the mains completely, remove the mains plug from the wall socket or from the AC MAINS OUTLETS of your amplifier

FITTING A MAINS PLUG (U.K. only)

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.

2. Insert new fuse, which should be a BS1362 5A, A.S.T.A. or BSI-approved type.

3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of **5A**. If a plug without a fuse is used, the fuse at the distribution board should not be greater than **5A**.

NOTE
The severed plug must be disposed of to avoid the possibility of an electric shock should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

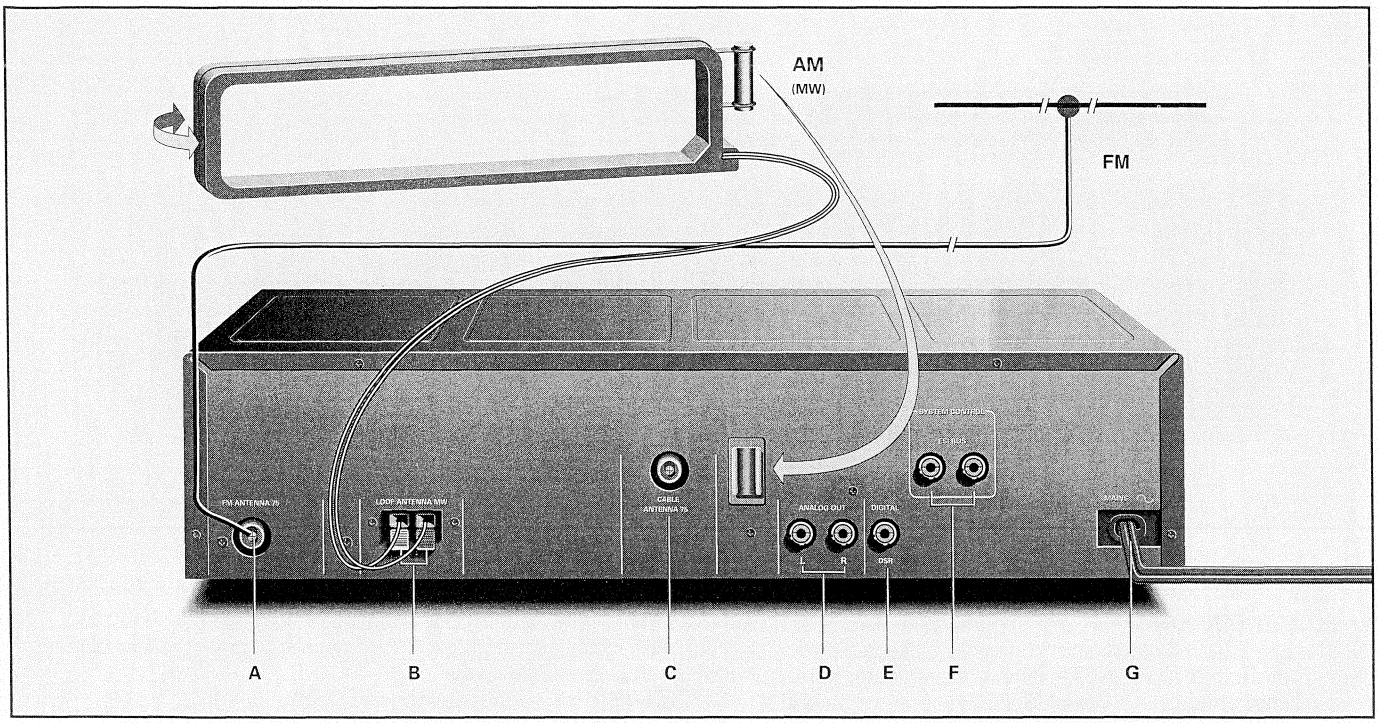
The wires in the mains lead are coloured in accordance with the following code:
BLUE – "NEUTRAL" ("N")
BROWN – "LIVE" ("L")
As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.

2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.

3. Do *not* connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol or coloured green or green and yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead – not simply over the two wires.



A FM ANTENNA 75 Ω
The FM ANTENNA socket is used for connection to the Community or Cable Antenna System or to a roof-mounted FM aerial with an impedance of 75 ohms. If none of these are available, you may use the wire supplied for nearby stations (reception could be poor).

B LOOP ANTENNA MW
For MW reception connect the supplied wires to both MW LOOP antenna terminals and position the antenna for best reception.

C CABLE ANTENNA 75 Ω
Connect a coaxial cable from the switchbox at the cable delivery socket to this DSR input socket.
NOTE: See also 'RECEPTION OF DSR SIGNALS'
(DSR = Digital Satellite Radio.

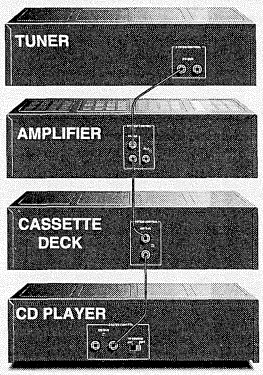
D ANALOG OUT
Output sockets for connecting your tuner to an amplifier. Connect the ANALOG OUT sockets to the TUNER or DSR input sockets of your amplifier.
NOTE: See also 'SYSTEM ASPECTS' on page 12.

E DIGITAL DSR
For connection to an amplifier which is equipped with a digital input or a digital recording device. This output supplies a digital signal and can therefore only be connected to an input which is suitable for this signal. Use here a lead with one cinch plug on either end.

F SYSTEM CONTROL
ESI BUS (Enhanced System Intelligence)
Remote-control sockets for connecting up the equipment when you are incorporating the tuner in a HiFi system with ESI BUS connection (e.g. Philips 900 series).
Connect the ESI socket to the ESI socket of the external equipment that uses the ESI remote control system.

G Mains lead

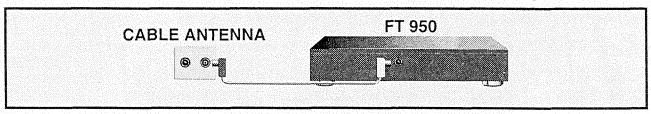
ESI BUS CONNECTIONS



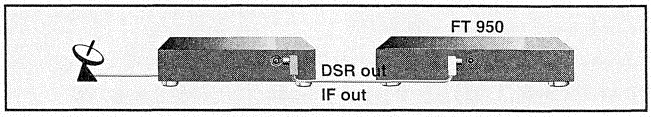
RECEPTION OF DSR SIGNALS

Reception of the DSR signal can be achieved in various ways:

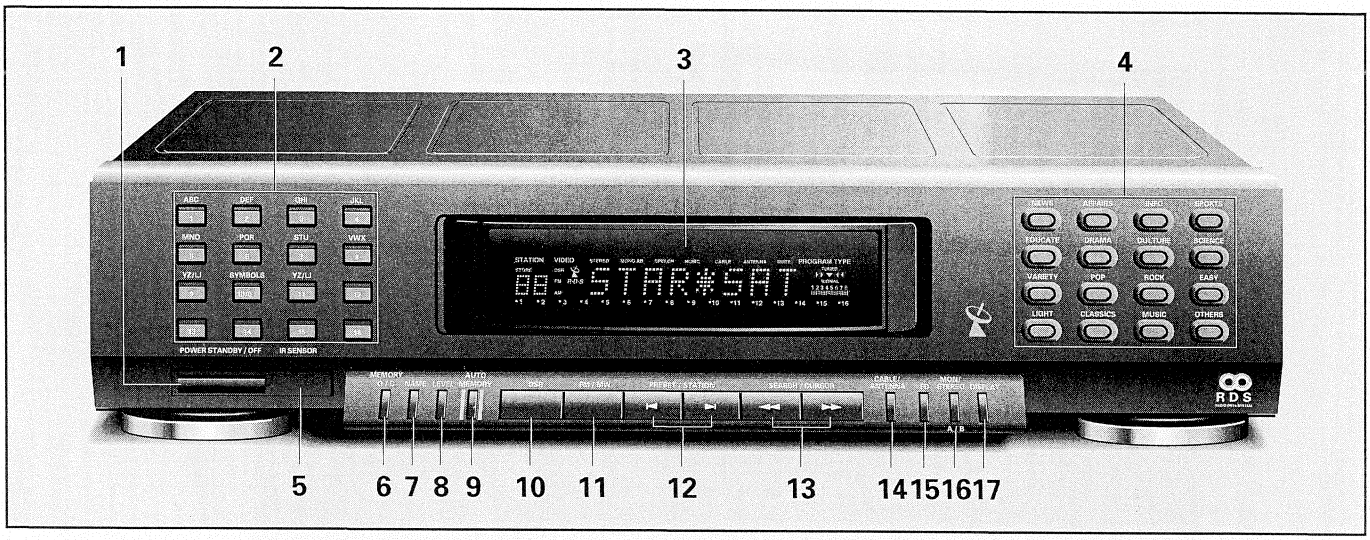
1. Cable connection
The set can be connected directly to the wall outlet as shown below.
To make sure that the wall outlet provides the DSR signal, consult your dealer, the cable owner or our service organisation.



2. Connection to a TV-satellite receiver
Any TV-satellite tuner that is provided with an output socket suitable for DSR can be used with this set.
Connect the coaxial cable from the DSR-OUT (or IF-OUT) of a TV-satellite receiver to the CABLE ANTENNA input (C).



After having made the necessary connections, your tuner is ready for use. In the next section we will describe how to operate it.



1 **POWER STANDBY/OFF** – for switching the tuner on and off. The red STANDBY indicator next to the key indicates that the unit is switched to STANDBY. The indicator does not function when one or both ESI BUS sockets are connected (see also 'SYSTEM ASPECTS' on page 12).

2 **Digit keys**
- for selecting FM/MW presets or DSR stations.
- for entering data when programming station names and when using the direct tuning function.

3 **Display**

4 **PROGRAMME TYPE** keys – for selecting the DSR programme type.

5 **IR SENSOR** – for receiving signals from the remote control. The infra red eye will be switched off automatically when one or both ESI BUS sockets are connected (see also 'SYSTEM ASPECTS' on page 12).

6 **MEMORY O**(pen)**/C**(lose) – for opening and closing the memory when storing satellite or FM/MW presets.

7 **NAME** – for programming satellite and FM/MW preset names.

8 **LEVEL** – for setting and reviewing audio output levels.

9 **AUTOMEMORY** – for automatic programming of FM/MW presets.

10 **DSR**
- for selecting DSR (Digital Satellite Radio) mode.
- for selecting DSR preset stations.

11 **FM/MW** – for selecting FM or MW waveband

12 **⏮ PRESET/STATION ⏭**
- preset up/down (in FM/MW mode).
- station up/down (in DSR mode).

13 **◀◀ SEARCH/CURSOR ▶▶**
- for automatic tuning (in FM/MW mode).
- for manual tuning (in FM/MW and DSR mode).
- for moving the cursor.
- for setting audio output levels (LEVEL)

14 **CABLE/ANTENNA** – for selecting CABLE ANTENNA (C), FM ANTENNA (A) or LOOP ANTENNA (B).
In DSR mode CABLE ANTENNA (C) will be selected automatically; in MW mode LOOP ANTENNA (B) will be selected automatically.

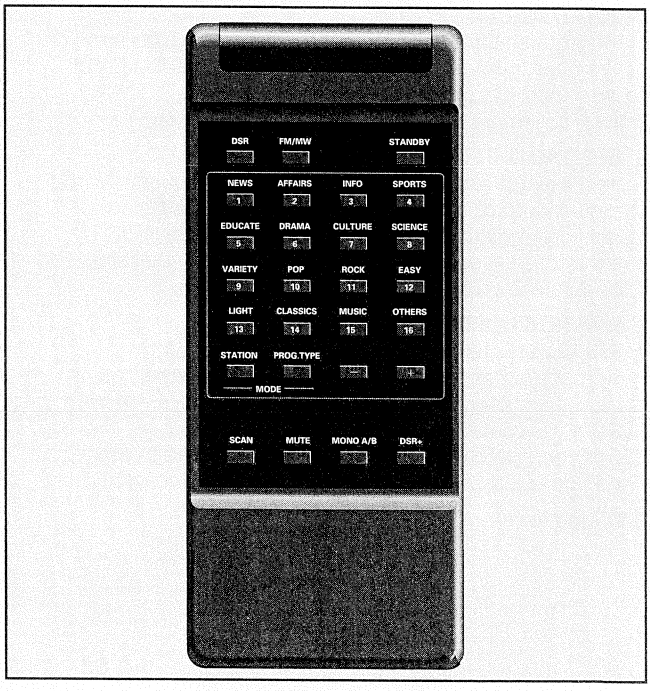
15 **F**(requency) **D**(irect) – for direct tuning to the station frequency.

16 **MONO/STEREO A/B** – for selecting mono (FM), mono A and B (DSR) or stereo (FM/DSR) reception.

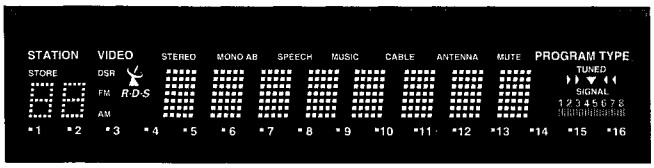
17 **DISPLAY** – for selecting the information to be shown on the display.

REMOTE CONTROL

DSR – for selecting DSR (Digital Satellite Radio) mode.
FM/MW – for selecting FM/MW tuner mode; the last selected band will be selected again.
STAND-BY – for switching the unit to standby.
NEWS-OTHERS – for direct selection of programme types (when the programme type mode is selected).
1-16 – for direct selection of stations (when the station mode is selected).
STATION MODE – for switching the unit to the station mode (in DSR).
PROG.TYPE MODE – for switching the unit to the programme type mode (in DSR).
-/+
– for selecting next or previous stations (in station mode).
– for selecting next or previous programme types (in programme type mode).
SCAN – for 10-second review of each FM/MW preset or of each station of the selected satellite preset.
MUTE – for muting the output signal of the tuner and switching the signal back to normal level.
MONO A/B – for selecting mono (FM), mono A and B (DSR) or stereo (FM/DSR) reception.
DSR + – for selecting the next satellite preset.



DISPLAY



The display shows:
STATION – lights up in the station mode.
STEREO – lights up when receiving a stereo transmitter.
Mono A B – lights up when a mono station is selected.
SPEECH – lights up when the selected station is transmitting spoken information (in DSR mode).
MUSIC – lights up when the selected station is transmitting music (in DSR mode).
CABLE – lights up when CABLE ANTENNA (C) has been selected. In DSR mode CABLE ANTENNA (C) will be selected automatically.
ANTENNA – lights up when FM ANTENNA (A) or LOOP ANTENNA (B) has been selected.
MUTE – lights up when the mute function is activated
PROGRAM TYPE – lights up when the programme type mode is selected.
STORE – flashes when the memory has been opened (with the MEMORY O/C key) to store a preferred station or satellite preset.
06 – indicates the selected station.
DSR – lights up when DSR (Digital Satellite Radio) has been selected.
FM and **AM** – indicate the selected waveband.
R-D-S – lights up when a RDS (Radio Data System) transmitter is being received. The name of this station appears on the display automatically.
STAR*SAT – alpha-numeric display showing the station name
TUNED – lights up when a station is found and tuned into correctly.
▸▸ ▼ ◂◂ – indicate that the unit is tuned exactly to a selected station:
▸▸ – the unit is tuned just 'under' the station;
▼ – the unit is tuned exactly to the station;
◂◂ – the unit is tuned just 'above' the station.
SIGNAL – indicates the signal strength of the selected station (in FM/MW).
1-16 – display bar indicating the DSR stations with the selected programme type.

With the DISPLAY button **17** you can change for approx. 4 seconds the information shown on the alpha-numeric display:

In DSR mode (DSR = Digital Satellite Radio, see page 8):
- Press once: the display shows the programme type of the station currently selected.
  The display shows: NO TYPE when there is no programme type transmitted.
- Press once more: when a subprogramme type is being transmitted, the display shows this programme type of the station currently selected.
  When no subprogramme type is being transmitted, the next block of information will appear on the display.
- Press once more: the display shows the frequency of the satellite preset.
- Press once more: the display shows the name of the satellite preset.
- Press once more: the display returns to the normal mode showing the name of the station.

In RDS mode (RDS = Radio Data System, see page 10):
- Press once: the display shows the name of the transmitter.
- Press once more: the display shows the frequency of the transmitter.

In FM/MW mode:
If a name has been stored:
– The display shows this name.
- Press once: the display shows the frequency of the transmitter.
- Press once more: the display shows the name again.

If no name has been stored:
– The display shows the frequency of the transmitter.
- Press once: the display shows NO NAME (for 2 seconds).

POWER STANDBY/OFF

- Press the POWER STANDBY/OFF key **1** to switch on the power.
– The tuner always selects the settings that were active when the set was last used.
- To switch off the tuner press the POWER STANDBY/OFF key again.
– If you have connected the plug of the mains lead to the MAINS OUTLETS of your amplifier, the power will automatically be switched off as soon as you switch off the amplifier.

STANDBY

- By pressing the STANDBY button on the remote control you switch the tuner to standby.
- The tuner can be switched back to operating mode by pressing any of the following keys:
  DSR **10**, FM/MW **11**, ⏮ PRESET/STATION ⏭ **12**, ◂◂ SEARCH/-CURSOR ▸▸ **13** or the digit keys **2**.

SWITCHABLE MUTING

- Press the MUTE button on the remote control to mute the output signal of the tuner (the volume is set at 0).
– MUTING appears on the display.
- Press again to switch the output signal back to normal level.
– The muting function is always de-activated when the set has been switched off or to standby and afterwards switched to operating mode again.

English

DIGITAL SATELLITE RADIO

Digital Satellite Radio (DSR) is a new broadcasting system which offers pure digital sound. This digital format, available via satellite and via a number of cable networks, consists of packages (satellite transmitter). Each package of 14 MHz bandwidth has its own frequency and is a composition of 16 stereo or 32 mono stations or any combination of the two.
Once the DSR mode has been selected the unit may be tuned to a DSR package (satellite transmitter). This enables all station within this package to be selected.
It is possible to store up to three packages as satellite presets together with a descriptive name which may be manually entered in the memory of the unit (see 'STORING SATELLITE PRESETS').
The satellite presets and the related stations (if available) may then be selected directly.
Consult your programme guide for further information concerning DSR frequencies.

TUNING

With the digit keys 2

- Select DSR mode by pressing DSR **10**.
- Press the F(requency) D(irect) key **15**.

– ENTER FREQUENCY will appear on the display for a few seconds. The display will then show '– .– .–'.

- Enter the desired frequency with the digit keys 1 - 10/0 (**2**) (10/0 =0). Always enter three digits. When the frequency consists of only two digits, first enter a 0 (this 0 will not be shown on the display).

  Note: Make sure that the correct frequency is entered (as described above) and that the right connections are made (see 'reception of DSR signals'). In case of problems consult your dealer or our service organisation.

– As soon as you have entered the last digit, the tuner selects this frequency.
– When the transmitter found is strong enough, the indicator TUNED lights up and you will hear station 1 of the selected satellite preset.
– Entry of the tuning frequency will automatically be interrupted after 90 seconds, or if a key other than the digit keys is pressed. The previous frequency will be tuned to again.

With the ◂◂ SEARCH/CURSOR ▸▸ keys 13

- Select DSR mode by pressing DSR **10**.
- Keep ◂◂ SEARCH/CURSOR ▸▸ **13** pressed down until you approach the required frequency.
- If you now briefly press ◂◂ SEARCH/CURSOR ▸▸, the frequency will be changed by one step each time until the right frequency has been reached or until optimum reception is obtained:
  ▸ ▸ – the unit is tuned just 'under' the station;
  ▼ – the unit is tuned exactly to the station;
  ◂ ◂ – the unit is tuned just 'above' the station.

– When the transmitter found is strong enough, the indicators TUNED and ▼ light up and you will hear station 1 of the selected satellite preset.

Note: When tuning to a frequency that has been stored as a satellite preset, the number and preset name (if any) of this preset appears on the display.

STORING SATELLITE PRESETS

It is possible to store the frequency and a manually programmed name for up to 3 satellite presets.
The following satellite presets have already been stored:

SAT. PRESET	FREQUENCY	NAME
1	118 MHz	CABLE 1
2	132 MHz	CABLE 2
3	480 MHz	

Both frequency and name can be changed manually.

Programming of satellite presets

- Select DSR mode by pressing DSR **10**.
- Tune to the frequency to be stored (as described under TUNING)

– If the display shows no preset number, the frequency shown has not yet been stored in the memory.

- Press the MEMORY O/C key **6** to open the memory.

– STORE starts flashing on the display.

- Select a memory location number (1 up to 3) with the digit keys **2**.
- Press the MEMORY O/C key **6** again to enter the frequency in the memory.

– STORE disappears from the display.
– A stored frequency is erased from the memory by storing another frequency in its place.

SELECTING SATELLITE PRESETS

In DSR mode:

- Press the DSR key **10** to select the next DSR preset.

– The display shows for approx. 2 seconds the name (if any) of this satellite preset and then selects the first station within the satellite preset. The name of this station appears on the display.

In FM/MW mode:

- Press the DSR key **10**.

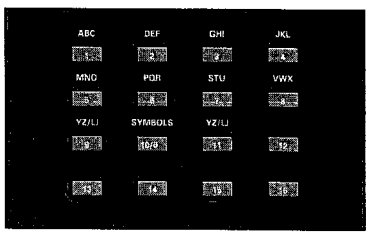
– DSR, TUNED, CABLE, STEREO, MONO A B, SPEECH and MUSIC light up.

- Press the DSR key **10** again to select the next DSR preset.

SELECTING STATIONS

Once a satellite preset has been selected, you may select the stations within this satellite preset in two ways:

In the STATION mode



- The required station can be selected *directly* by pressing one of the 16 STATION keys **2**.
  You can also select the station by using the ⏮ PRESET/STATION ⏭ keys **12**.

– The station selected is shown on the display.
FREE appears on the display when there is no station under the selected key.
– A station can be occupied by 2 mono stations. If such a station is selected, station A is set first.
– Mono A lights up on the display.

- With the MONO/STEREO A/B button **16** you can switch between mono station A and B.

In the PROGRAMME TYPE mode

- With the programme type keys **4** you can select a specific programme type.
- PROGRAM TYPE lights up.
- The stations which transmit this selected programme type are indicated on the 1-16 display bar.
- The station with the lowest number will be selected.
- The display shows the name and number of the selected station for 2 seconds; then the station number and the selected programme type are displayed.
- If you press a 'new' programme type key, the station with the lowest station number is chosen.

Note: Programme type information is supplied by the transmitter. If no station transmitting the selected programme type is found, the display shows NO, followed by the selected programme type name; e.g. NO NEWS.

- The individual stations can be called up sequentially in ascending order by repeatedly pressing the same programme type key.
- When the programme type of the selected station is being changed by the transmitter, the next station within the current programme type is selected.
- The individual stations can also be selected by pressing one of the station keys **2** of which the number lights up in the display bar.
- In doing so, this station is selected and the unit returns to the station mode.

NAMING SATELLITE PRESETS

You can manually enter names for satellite presets which will be shown on the display when you select that preset.
The name can be a combination of figures, letters, symbols and spaces and can be made up of a maximum of 8 characters.

- Select DSR mode by pressing DSR **10**.
- Select a satellite preset.
- Press the NAME key **7**.
- ENTER DSR NAME will appear on the display, followed by a blinking cursor.
- A name for this preset (maximum 8 characters) can now be entered with the digit/alphabet keys **2**.
  Use the ◂◂ SEARCH/CURSOR ▸▸ **13** keys to move the cursor to the next or previous position.
- Press the NAME key again to store the name in the memory.

Changing a name

- Press the NAME key **7**.
- The first character of the existing name starts to flash.
- Enter the new name and press the NAME key again to store it in the memory.

Erasing a name

- Press the NAME key **7**.
- The first character of the name starts to flash.
- You can now erase a character by moving the cursor to the desired position, after which you press the digit key 'YZ/I_I, 9' three times (I_I).
- Press the NAME key again.
- The name or character has now been erased.

LEVEL (SPEECH/MUSIC)

When the selected station is transmitting music, the MUSIC indication lights up.
The SPEECH indication lights up when spoken information is transmitted.
Note: Information concerning speech/music is being provided by the transmitter. It is possible that transmitters are not providing the correct information. It then seems as if the wrong indication lights up.
The LEVEL key **8** can be used to adjust the level of speech relative to music. This offers the facility to mute either spoken information or music, each to a maximum of 21 dB.
When a station changes from speech to music (or vice versa), the output level adapts automatically to the changed situation.

- Press the LEVEL key **8** (in DSR mode).
- MUSIC lights up, followed by the actual setting.
- You can now adjust the MUSIC level using the ◂◂ SEARCH/CURSOR ▸▸ keys **13**.
- Press the LEVEL key again.
- SPEECH lights up, followed by the actual setting.
- You can now adjust the SPEECH (spoken information) level using the ◂◂ SEARCH/CURSOR ▸▸ keys **13**.
- Press the LEVEL key again to go back to DSR mode.

SCAN

- Select DSR mode by pressing DSR **10**.
- If required, select a satellite preset by pressing the DSR key more than once.
- Press the SCAN key on the remote control.
- The display shows SCAN.
- The unit will now scan all stations of the selected satellite preset, beginning with the current station. You will hear 10 seconds of the programme of each station.
- By pressing SCAN again you can stop the scanning function at the station you wish to hear.
- The scanning function stops automatically when all stations have been scanned.

English

RDS

RDS (Radio Data System) is a method for transmission of information signals together with the station signals. Your tuner is capable of translating these signals and putting the information on the display. When you have tuned to an RDS transmitter, the RDS logo and the name of this transmitter will appear on the display.

- Press the DISPLAY key **17** to display the frequency or the name of the transmitter.

– If an RDS station has been selected, the frequency may automatically be followed by the name of the transmitter without pressing the DISPLAY key.

GENERAL

- Select the waveband by pressing selector **11** until the desired waveband appears in the display.
- Tune to a radio station or select a preset number. The correct procedure is described in the following chapters.

– While tuning the audio signal will be muted to eliminate interfering background noises; MUTE lights up in the display. When a transmitter is found the audio signal will be set to normal volume again.

– When STEREO appears on the display (in FM mode), this means that you are receiving an FM-stereo transmitter. If the FM-stereo signal is too weak the set will automatically switch to MONO.
A stereo transmitter can be stored in mono or in stereo.

– De signalstrength will be indicated in the display.

Note: Make sure that the correct antenna input has been selected (FM-antenna *A* or CABLE ANTENNA *C*). In case the signal strength is not indicated, check connection and setting.

AUTOMATIC TUNING

- Press ◂◂ SEARCH/CURSOR ▸▸ **13** for more than 0.5 seconds. Then release the button.

– The tuner will now search until a transmitter of sufficient strength has been found.

– The display shows the tuned frequency; TUNED and ▼ light up.

- If the transmitter found is not the desired one, simply repeat this operation.

– Weak transmitters are skipped during automatic tuning. They can be tuned to manually.

MANUAL TUNING

Manual tuning is useful when you already know the frequency of the desired transmitter (e.g. from your programme guide).

With the digit keys 2

- Press the F(requency) D(irect) key **15**.

– ENTER FREQUENCY will appear on the display for a few seconds. The display will then show '– – – MHZ' or '– – – KHZ'.

- Enter the desired frequency with the digit keys 1-10/0 (2); for FM the first digit must always be a 1, 8 or 9!

– As soon as you have entered the last digit, the tuner selects this frequency and the transmitter becomes audible.

– Entry of the tuning frequency will automatically be interrupted after 90 seconds, or if a key other than the digit keys is pressed. The previous frequency will be tuned to again.

With the ◂◂ SEARCH/CURSOR ▸▸ keys 13

- Keep ◂◂ SEARCH/CURSOR ▸▸ **13** pressed down until you approach the required frequency.
- If you now briefly press ◂◂ SEARCH/CURSOR ▸▸ the frequency will be changed by one step each time until the right frequency has been reached or until optimum reception is obtained:

▸▸ – the unit is tuned just 'under' the station;
▼ – the unit is tuned exactly to the station;
◂◂ – the unit is tuned just 'above' the station.

– If the transmitter found is strong enough TUNED and ▼ will light up.

Note: When tuning to a frequency that has been stored as a preset station, the number and station name (if any) of this preset appears on the display.

PRESET STATIONS

You can store 59 preferred stations in the memory of the tuner. This enables you to find your favourite stations quickly and easily; the preset numbers can be selected with the digit keys.

Automatic programming of preset stations

- Briefly press one of the ◂◂ SEARCH/CURSOR ▸▸ keys **13** to make sure that no preset station has been selected.
- Press AUTO MEMORY **9** for more than 2 seconds. Then release this key.

– Up to 59 stations in the FM waveband will be stored automatically in the memory, starting from the next preset.

– The FM waveband will be scanned five times:
first, the strong RDS transmitters that are received via the cable antenna will be stored; then the strong RDS transmitters that are received via the FM antenna;
then the FM waveband will be scanned with low sensitivity to find the strongest FM transmitters that are received via the cable antenna and then via the FM antenna;
the last scan of the FM waveband is performed with high sensitivity in order to find the weaker transmitters that are received via the FM antenna.

– If less than 59 stations are found, the tuner will also scan the MW band to store preset stations in the rest of the memory locations.

NOTE: If less than 59 transmitters (FM, MW) are available, the rest of the memory locations will remain unchanged.

- Press AUTO MEMORY again to stop automatic programming.

Manual programming of preset stations

- Tune either automatically or manually to the frequency to be stored (as described under TUNING).
- If the display shows no preset number, the frequency shown has not yet been stored in the memory.
- Press the MEMORY O/C key **6** to open the memory.

– The word STORE starts flashing on the display.

- Select a memory location number (1 up to 59) with the digit keys **2** (when selecting a 2-digit number, press the second digit key within 1.5 seconds).
- Press the MEMORY O/C key **6** again to enter the frequency in the memory.

– STORE disappears from the display.

– A stored frequency, as well as its name (if any), is erased from the memory by storing another frequency in its place.

NOTE: *You can also store your favourite preset stations manually in the first preset memory locations and then fill the remaining memory locations by automatic programming.*

- Select the last stored preset station with the digit keys **2**.
- Press AUTO MEMORY **9** for more than 2 seconds. Then release this key.

– Automatic programming will start from the selected preset station.

SELECTING PRESET STATIONS

- Select the desired preset number with the digit keys **2** (when selecting a 2-digit preset station, press the second digit key within 1.5 seconds).
  You can also select the station by using the ⏮ PRESET/STATION ⏭ keys **12**.
- – You will now receive the selected station and the display will show the preset number, the tuned frequency or the RDS or station name.

STATION NAME

You can manually enter names for preset stations which will be shown on the display when you are tuned to that preset. The name can be a combination of figures, letters, symbols and spaces and can be made up of a maximum of 8 characters.

- Choose a preset number with the digit keys **2**.
- Press the NAME key **7**.
- – The display shows ENTER NAME.
- – The flashing cursor shows the location for the input.
- By pressing the digit/alphabet keys **2** repeatedly you can select the desired name. To move the cursor to a next or previous position use ◀◀ SEARCH/CURSOR ▶▶ **13**.
- Press NAME **7** again to store the name in the memory.

Note: When receiving an RDS station it is not possible to change the name manually.

Changing a name

- Press the NAME key **7**.
- – The first character of the existing name starts to flash.
- Enter the new name and press the NAME key again to store it in the memory.

Erasing a name

- Press the NAME key **7**.
- – The first character of the name starts to flash.
- You can now erase a character by moving the cursor to the desired position, after which you press the digit key 'YZ/I_!, 9' three times (I_!).
- Press the NAME key again.
- – The name or character has now been erased.

Note.: It is possible to store a preset station, to which a name has been allocated, in the memory under a different number (for this, see: 'Manual programming of preset stations'). The name will then automatically allocated to the new number.

ERASING PRESET STATIONS

- Select the preset station you wish to erase with the digit keys **2** (when selecting a 2-digit preset station, press the second digit key within 1.5 seconds).
- Press MEMORY O/C **6**.
- – STORE starts flashing.
- Press MEMORY O/C **6** again (this time longer than 2 seconds) Then release this key.
- – FREE lights up; the preset station has now been erased.

LEVEL

The LEVEL key **8** can be used to adjust the level of each individual preset.

- Select the required preset station.
- Press the LEVEL key **8**.
- – LEVEL lights up, followed by the actual setting.
- You can now adjust the level using the ◀◀ SEARCH/CURSOR ▶▶ keys **13**.
- Press the LEVEL key **8** again to go back to FM/MW mode.
- – The level for the selected preset station has now been stored in the memory.

SCAN

- Select the required band by pressing the FM/MW key **11**.
- By pressing the SCAN key on the remote control you can scan all stored preset stations.
- – The display shows SCAN.
- – The unit will now scan all stored preset stations, beginning with the next preset. You will hear 10 seconds of the programme of each station.
- By pressing SCAN again you can stop the scanning function at the preset station you wish to hear.
- – The scanning function stops automatically when all presets have been scanned; presets that have not been stored or where no signal is present will not be scanned.

English

ENHANCED SYSTEM INTELLIGENCE

If the tuner is connected via the ESI BUS sockets to the ESI BUS sockets of a HiFi system (e.g. the Philips 900 series), the tuner can be operated via the remote control of the system; for DSR functions, first press DBS and for FM/MW functions first press TUNER. In addition, the function AUTOMATIC SOURCE SELECTION (mentioned below) is then accessible.
STANDBY indication and reception of remote control signals will now take place via the system amplifier.

AUTOMATIC SOURCE SELECTION

If the AUTO SELECT function on the amplifier is activated, the tuner will automatically be selected as soon as you press one of the following keys:
PROGRAM TYPE **4**, DSR **10**, FM/MW **11**, ⏮ PRESET/-STATION ⏭ **12**, ◀◀ SEARCH/CURSOR ▶▶ **13** or the digit keys **2**

The FT950 can be programmed to make automatic source selection possible for two situations:

Tuner input:
When the set is connected to the tuner input of the amplifier, the FT950 must be programmed accordingly.
This can be done by pressing the FM/MW key **11** *while* switching *on* the power of the FT950. This only needs to be done once. The tuner input socket will now be selected automatically as soon as the FT 950 is activated.

DSR input:
When the set is connected to the DSR input of the amplifier or receiver, the FT950 must be programmed accordingly.
This can be done by pressing the DSR key **10** *while* switching *on* the power of the FT950. This only needs to be done once. The DSR input socket will now be selected automatically as soon as the FT 950 is activated.

STANDBY

- Switching your tuner to standby can also be done via the system remote control.
- First select TUNER or DBS on the remote control and then briefly press the standby key.

– The tuner will be switched to standby.

- If the standby key is kept pressed for more than approx. 1 second, the whole system will be switched to standby.

– All light indicators will be switched off with the exception of the standby indicator on the amplifier.
– If AUTO SELECT (on the amplifier) is activated, the indicator of this key will also light up during standby.

NOTE: If the whole system is switched to standby when a recording is active, the recording will be cancelled.

- By selecting the TUNER or DBS source on the amplifier or on the system remote control, the tuner will be activated again.
- The tuner will also be activated again as soon as you press one of the following keys:
  DSR **10**, FM/MW **11**, ⏮ PRESET/STATION ⏭ **12**, ◀◀ SEARCH/-CURSOR ▶▶ **13** or the digit keys **2**

TECHNICAL SPECIFICATIONS

(Subject to modification)

DSR section

DSR frequency range	50 - 855 MHz
Antenna impedance	75 Ohm
Audio frequency range	20 - 15 000 Hz (± 0.5 dB)
Dynamic range	87 dB
S/N ratio (mono/stereo)	98 dB
Distortion level	< 0.02 %
Stereo channel division	> 85 dB
Sample frequency	32 kHz
D/A conversion	Bitstream

FM section

FM frequency range	87.5 - 108 MHz
Input sensitivity (mono/stereo)	≤ 1.1/35 µ V
FM limitation	≤ 1.1/0.8 µ V
IF stability (FM)	110 dB
S/N ratio (mono/stereo)	81/76 dB
Channel separation (1 kHz)	44 dB
Dynamic selectivity (mono/stereo)	≥ 60/60 dB
AM suppression	> 50 dB
FM transmission range	20 - 15,000 Hz
Distortion (mono/stereo)	0.12/0.35 %

MW section

MW frequency range	522 - 1611 kHz
Input sensitivity	1 mV/m
Selectivity	30 dB
S/N ratio	53 dB
IF-rejection	55 dB
Tuning steps	9 kHz

Connection sockets

Digital output (DSR)	1 x Cinch
Analog output	2 x Cinch
Remote control	ESI-bus, 2 x Cinch

Power supply

Mains voltages	220 V/50 - 60 Hz
Electrical requirements	IEC 65

Cabinet, general

Dimensions (w x h x d)	435 x 106 x 300 mm approx.
Weight	6 kg approx.

MAINTENANCE

- Do not leave the unit for any length of time in direct sunlight or other places where high temperatures can occur, such as in the vicinity of heating apparatus.
- Do not expose the equipment to humidity or rain.
- A chamois leather slightly moistened with water is sufficient for cleaning the tuner.
- Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives.